

No.

8900255



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

University of Idaho

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS OF THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN

'UI 906'



Attest:

Kenneth Hevner
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 31st day of July in the year of our Lord one thousand nine hundred and ninety-two.

Edward Madison
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) University of Idaho		2. TEMPORARY DESIGNATION 85B9		3. VARIETY NAME UI 906	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) Moscow, ID 83843		5. PHONE (Include area code)		FOR OFFICIAL USE ONLY PVPO NUMBER 8900255	
6. GENUS AND SPECIES NAME Phaseolus Vulgaris (L.)		7. FAMILY NAME (Botanical) Leguminosae		FILING DATE June 19, 1989 TIME 1:30 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	
8. KIND NAME Dry Bean - Black		9. DATE OF DETERMINATION Feb. 1, 1986 April 1, 1987		FEE RECEIVED AMOUNT FOR FILING \$ 2150.- DATE June 19, 1989 AMOUNT FOR CERTIFICATE \$ 250.00 DATE June 30, 1992	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Land-Grant University				12. DATE OF INCORPORATION	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION					
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS James R. Myers Rt. #1 3793 N 3600 E Kimberly, ID 83341 PHONE (Include area code): (208) 423-4691					

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

- a. ☒ Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
b. ☒ Exhibit B, Novelty Statement.
c. ☒ Exhibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.)
d. ☒ Exhibit D, Additional Description of Variety.
e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership.

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.)

☒ Yes (If "Yes," answer items 16 and 17 below) ☐ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☒ Yes ☐ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☒ Foundation ☒ Registered ☒ Certified

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ Yes (If "Yes," give date)☒ No

19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?

☐ Yes (If "Yes," give names of countries and dates)☒ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT

James R. Myers

DATE

3/30/89

SIGNATURE OF APPLICANT

Barry Lee, Director IAES

DATE

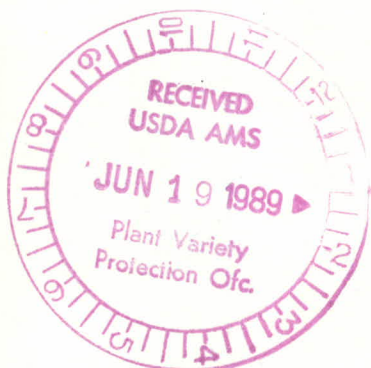
6-10-89

INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds (*furnish only untreated seed*), and \$1,800 fee (\$200 filing fee and \$1,600 examination fee) to the U. S. Department of Agriculture, Agricultural Marketing Service, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See Section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item

- 9 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 14a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 14b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 14d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 14e Section 52(4) of the Plant Variety Protection Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.
- 15 If "Yes" is specified (*seed of this variety be sold by variety name only as a class of certified seed*) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See Section 180.16 of the Regulations and Rules of Practice.)
- 19 See Sections 41 (i,j) and 42 of the Plant Variety Protection Act and Section 180.7 of the Regulations and Rules of Practice for eligibility requirements.
- NOTE: All information submitted in support of an application becomes PUBLIC INFORMATION once the certificate is issued. [See Section 180.17 of the Regulations and Rules of Practice.]



8900255

Exhibit A Origin and Breeding History of 'UI906'

'UI 906' is an F_4 selection made by John Kolar in 1984 from the 1981 cross 'Midnight' X 07055 F_3 . It is now in the F_8 generation. The pedigree method was used to develop this cultivar (Figure 1). Midnight is a high-yielding and upright black cultivar with late maturity in Idaho. It was released by Cornell University in 1980. John Kolar developed the breeding line 07005 which has three to five days earlier maturity, but similar growth habit and seed size to 'Midnight'. 07055 has a large proportion of root rot tolerant germplasm in its pedigree. It was tested in the Cooperative Dry Bean Nursery in 1982, but was not released because of persistent segregation for shiny and dull seed coat.

'UI 906' was grown in preliminary trials in 1985 and in advanced trials at Kimberly in 1986 and 1987. It was grown at both Kimberly and Parma in 1988. It was tested in New York state at one location in 1986 and three locations in 1987, and at two locations in Michigan in 1988 (Exhibit D, Table 1).

Tests for resistance to BCMV were performed at Prosser, WA under the direction of Matt Silbernagel in 1987. 'UI 906' was resistant to the NY-15 and NL-4 races of BCMV, but exhibited necrotic tip kill when inoculated with the NL-5 race of BCMV. Other bean cultivars that show this pattern of resistance carry the dominant *I* gene for resistance to BCMV.

'UI 906' was tested in the 1988 Uniform Dry Bean Rust Nursery at locations in Maryland and Michigan. It was susceptible to the rust

8900255

races in Maryland, but resistant, to highly resistant to the races found in Michigan.

Figure 1. Pedigree for the black UI 906.¹Cross: Midnight X 07055 F₃

Generation	Year	Comments
F ₁	1981	
↓		
F ₂	1982	Single plant selection
↓		
F ₃	1983	Single plant selection
↓		
F ₄	1984	Bulked
↓		
F ₅	1985	Preliminary Nursery
↓		
F ₆	1986	Advanced Nursery
↓		
F ₇	1987	Advanced Nursery
↓		
F ₈	1988	Advanced Nursery

¹Crosses made in the greenhouse and all other generations grown in the field.

Breeder's seed from 100 single plants grown in the greenhouse in 1988 and progeny rows in the field in 1988.

8900255

Exhibit B

Statement of Novelty

'UI 906' can be distinguished from other black cultivars on the basis of maturity, seed size, and appearance of foliage (Exhibit D, Table 1). It matures an average of 6 days before 'Midnight' when grown in Idaho. Maturity differences are even more dramatic in New York state where as much as a 22 day difference in maturity was observed. The seed size of 'UI 906' is smaller than other black cultivars. This difference is statistically significant in some environments. The foliage of 'UI 906' has a dull green appearance compared to the bright green foliage of other black bean cultivars. 'UI 906' yields slightly less than, but not statistically significantly different from 'Midnight' in Idaho, but shows significantly lower yields in Michigan and New York state where a longer growing season permits 'Midnight' to reach its full yield potential. 'UI 906' is most similar to 'Midnight.'

AAA 5 June 1992
per letter of 15 Jan 1992

U. S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK AND SEED DIVISION

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Dry Edible Bean (*Phaseolus vulgaris* L.)

NAME OF APPLICANT(S) University of Idaho	EXPERIMENTAL NAME 85B9	VARIETY NAME UI 906
ADDRESS (Street and No. or R.F.D. No., City, State, ZIP) Moscow, ID 83843		FOR OFFICIAL USE ONLY PVPO NO. 8900255

Provide data for all characters unless indicated as "optional." Place numbers in the boxes for the characters or numerical values which best describe this variety. Measured data should be the mean of an appropriate number of well spaced (15-20 cm) plants. The Royal Horticulture Society or any recognized color standard may be used to determine plant color. Designate the color system used below.

COLOR SYSTEM USED R. H. S. Colour Chart	LOCATION OF THE TEST(S) TO EVALUATE THIS VARIETY Kimberly, Parma ID, New York, Michigan
--	--

MARKET CLASS	2. MATURITY																										
<div>0 3</div> <table border="0"> <tr> <th>CLASS</th> <th>CHECK</th> </tr> <tr> <td>1 = Navy (Pea)</td> <td>Seafarer</td> </tr> <tr> <td>2 = Small White</td> <td>Aurora</td> </tr> <tr> <td>3 = Black</td> <td>Midnight</td> </tr> <tr> <td>4 = Pinto</td> <td>UI-114</td> </tr> <tr> <td>5 = Great Northern</td> <td>UI-59</td> </tr> <tr> <td>6 = Small Red</td> <td>NW-59</td> </tr> <tr> <td>7 = Pink</td> <td>Viva</td> </tr> <tr> <td>8 = Cranberry</td> <td>UI-50</td> </tr> <tr> <td>9 = Dark Red Kidney</td> <td>Montcalm</td> </tr> <tr> <td>10 = Light Red Kidney</td> <td>Redcloud</td> </tr> <tr> <td>11 = Yellow Eye</td> <td>Steuben</td> </tr> <tr> <td>12 = Other (specify)</td> <td></td> </tr> </table>	CLASS	CHECK	1 = Navy (Pea)	Seafarer	2 = Small White	Aurora	3 = Black	Midnight	4 = Pinto	UI-114	5 = Great Northern	UI-59	6 = Small Red	NW-59	7 = Pink	Viva	8 = Cranberry	UI-50	9 = Dark Red Kidney	Montcalm	10 = Light Red Kidney	Redcloud	11 = Yellow Eye	Steuben	12 = Other (specify)		<div>2</div> <p>1 = Early (80-90 days); 2 = Medium (90-100 days); 3 = Late (>100 days)</p> <div>0 9 5</div> <p>Days from planting to harvest maturity</p> <div></div> <p>Heat units from planting to harvest maturity (optional). Specify base temperature used: _____</p> <div>1 0 0</div> <p>Days from planting to harvest maturity of check variety (use check appropriate to market class shown in item 1)</p>
CLASS	CHECK																										
1 = Navy (Pea)	Seafarer																										
2 = Small White	Aurora																										
3 = Black	Midnight																										
4 = Pinto	UI-114																										
5 = Great Northern	UI-59																										
6 = Small Red	NW-59																										
7 = Pink	Viva																										
8 = Cranberry	UI-50																										
9 = Dark Red Kidney	Montcalm																										
10 = Light Red Kidney	Redcloud																										
11 = Yellow Eye	Steuben																										
12 = Other (specify)																											

PLANT HABIT										
<div>3</div> <table border="0"> <tr> <th>TYPE</th> </tr> <tr> <td>1 = Ia Bush-determinate, strong and erect stem and branches</td> </tr> <tr> <td>2 = Ib Bush-determinate, weak stem and branches</td> </tr> <tr> <td>3 = IIa Erect growth habit-indeterminate, guides (runners) short or not developed</td> </tr> <tr> <td>4 = IIb Erect growth habit-indeterminate, guides medium to long, with no ability to climb</td> </tr> <tr> <td>5 = IIIa Vine-indeterminate, short guides with no ability to climb</td> </tr> <tr> <td>6 = IIIb Vine-indeterminate, long guides with ability to climb</td> </tr> <tr> <td>7 = IVa Indeterminate climbing, pods distributed throughout the plant</td> </tr> <tr> <td>8 = IVb Indeterminate climbing, pods concentrated on the upper part of the plant</td> </tr> </table>	TYPE	1 = Ia Bush-determinate, strong and erect stem and branches	2 = Ib Bush-determinate, weak stem and branches	3 = IIa Erect growth habit-indeterminate, guides (runners) short or not developed	4 = IIb Erect growth habit-indeterminate, guides medium to long, with no ability to climb	5 = IIIa Vine-indeterminate, short guides with no ability to climb	6 = IIIb Vine-indeterminate, long guides with ability to climb	7 = IVa Indeterminate climbing, pods distributed throughout the plant	8 = IVb Indeterminate climbing, pods concentrated on the upper part of the plant	<div>0 4 4</div> <p>Average height of mature plant, in cm.</p> <div>0 5 1</div> <p>Average height of check variety, in cm. (use same check as above)</p> <div>2</div> <p>Pod Position: 1 = Low (lower pods touching soil surface) 2 = High (lower pods not touching soil surface) 3 = Scattered (not concentrated high or low)</p> <div>1</div> <p>Adaptability to machine harvest: 1 = Adapted 2 = Not Adapted</p> <div>1</div> <p>Lodging resistance: 1 = Good 2 = Fair 3 = Poor</p>
TYPE										
1 = Ia Bush-determinate, strong and erect stem and branches										
2 = Ib Bush-determinate, weak stem and branches										
3 = IIa Erect growth habit-indeterminate, guides (runners) short or not developed										
4 = IIb Erect growth habit-indeterminate, guides medium to long, with no ability to climb										
5 = IIIa Vine-indeterminate, short guides with no ability to climb										
6 = IIIb Vine-indeterminate, long guides with ability to climb										
7 = IVa Indeterminate climbing, pods distributed throughout the plant										
8 = IVb Indeterminate climbing, pods concentrated on the upper part of the plant										

LEAFLET MORPHOLOGY (Use terminal leaflet of a fully expanded trifoliate)

<div>1</div> <p>1 = Smooth; 2 = Wrinkled</p>	<div>1</div> <p>1 = Dull; 2 = Glossy; 3 = Semiglossy; 4 = Variable</p>
--	--

<div>1</div> <p>SHAPE:</p>	1 = Ovate	2 = Lanceolate	3 = Deltoid	4 = Cordate	5 = Rhomboid
<div>2</div> <p>APEX OF LEAFLET:</p>	1 = Acute	2 = Acuminate	3 = Cuspidate	4 = Obtuse	
<div>1</div> <p>BASE OF LEAFLET:</p>	1 = Obtuse	2 = Oblique	3 = Cordate	4 = Cuneate	5 = Attenuate

7
5. FLOWER COLOR AND DAYS TO BLOOM

COLOR OF STANDARD: 1 = White; 2 = Cream; 3 = Pink; 4 = Blue; 5 = Purple

COLOR OF KEEL: 1 = White; 2 = Cream; 3 = Pink; 4 = Blue; 5 = Purple

COLOR OF WINGS: 1 = White; 2 = Cream; 3 = Pink; 4 = Blue; 5 = Purple

Days to 50% bloom

6. POD MORPHOLOGY (Green pod morphology optional)

Green Mature

COLOR PATTERN: 1 = Solid; 2 = Striped; 3 = Blotched; 4 = Mottled; 5 = Other _____

PRIMARY COLOR: 1 = Purple; 2 = Red; 3 = Green; 4 = Yellow; 5 = Tan; 6 = Brown; 7 = Other _____

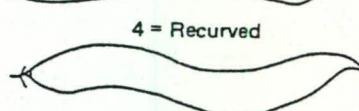
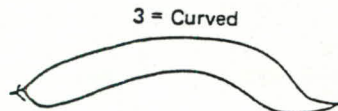
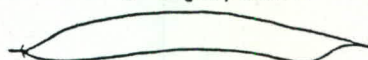
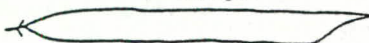
COLOR MODIFIER: 1 = Light; 2 = Light Medium; 3 = Medium; 4 = Medium Dark; 5 = Dark

SECONDARY COLOR: 1 = Purple; 2 = Red; 3 = Green; 4 = Yellow; 5 = Tan; 6 = Brown; 7 = Other _____

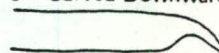
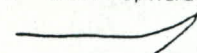
CROSS SECTION SHAPE: 1 = Flat 2 = Pear 3 = Round 4 = Figure Eight



POD CURVATURE: 1 = Straight 2 = Slightly Curved 3 = Curved 4 = Recurved



POD BEAK ORIENTATION: 1 = Straight 2 = Curved Upward 3 = Curved Downward 4 = Variable
Average beak length, in cm. _____



CONSTRICTIONS: 1 = None; 2 = Slight; 3 = Deep

Average number of seeds per pod

7. SEED COLOR

1 = Shiny; 2 = Dull; 3 = Semishiny; 4 = Variable

1 = Monochrome; 2 = Polychrome

PRIMARY COLOR: 1 = White; 2 = Yellow; 3 = Buff; 4 = Tan; 5 = Brown; 6 = Pink; 7 = Red; 8 = Purple; 9 = Blue; 10 = Black; 11 = Other _____

SECONDARY COLOR: 1 = White; 2 = Yellow; 3 = Buff; 4 = Tan; 5 = Brown; 6 = Pink; 7 = Red; 8 = Purple; 9 = Blue; 10 = Black; 11 = Other _____

COLOR PATTERN: 1 = Solid; 2 = Splashed; 3 = Mottled; 4 = Striped; 5 = Flecked; 6 = Dotted

HILAR RING: 1 = Absent; 2 = Present

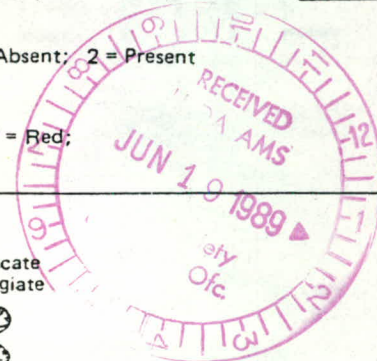
HILAR RING COLOR: 1 = White; 2 = Yellow; 3 = Buff; 4 = Tan; 5 = Brown; 6 = Pink; 7 = Red; 8 = Purple; 9 = Blue; 10 = Black; 11 = Other _____

8. SEED SHAPE AND WEIGHT

SHAPE OF SEED TAKEN FROM MIDDLE OF POD: 1 = Round 2 = Oval 3 = Cuboid 4 = Kidney 5 = Truncate Fastigate



Dry seed weight in g/100g seeds (adjusted to 12% moisture)



9. ANTHOCYANIN PIGMENTATION

1 = ABSENT
2 = PRESENT☒ 2 Flowers☒ 2 Stems☒ 2 Pods☒ 2 Seeds☒ 1 Leaves☒ 2 Petioles☒ 2 Peduncles☒ 1 Nodes

10. KNOWN DISEASE REACTION

DISEASES - COMMON NAME: Anthracnose, Rust, Powdery mildew, Fusarium root rot, Pythium root rot, Rhizoctonia root rot, Pythium wilt, Sclerotinia white mold, Angular leaf spot, Bacterial wilt, Halo blight, Fuscous blight, Common bacterial blight, Red node virus, Pod mottle virus, Bean common mosaic virus, Bean yellow mosaic virus, Curly top virus, Bacterial brown spot, Bean southern mosaic virus, Other (specify) _____

REACTION: 1 = Susceptible; 2 = Resistant; 3 = Tolerant; 4 = Avoidance

(Give the common name (CN), scientific name (SN), and race(s), where applicable)

☒ 2 DISEASE: CN Bean Common Mosaic V.; SN -; Race(s) NY-15, NL-4☒ 1 DISEASE: CN Bean Common Mosaic V.; SN -; Race(s) NL-5☒ 3 DISEASE: CN Curly Top Virus; SN -; Race(s) _____☒ 4 DISEASE: CN White Mold; SN Sclerotinia sclerotiorum; Race(s) _____☒ 2 DISEASE: CN Rust; SN Uromyces phaseoli; Race(s) in Saginow, MI 1988☒ 1 DISEASE: CN "; SN "; Race(s) in Beltsville, Maryland 1988

11. KNOWN INSECT/NEMATODE RESISTANCE

PESTS - COMMON NAME: Aphids, Bean pod weevil, Bruchid beetle, Corn earworm, Flea beetle, Leaf hopper, Lesion nematode, Lygus, Mexican bean beetle, Root knot nematode, Corn seed maggot, Spider mites, Thrips, Weevils, Western bean cutworm, Other (specify) _____

REACTION: 1 = Susceptible; 2 = Resistant; 3 = Tolerant; 4 = Avoidance

(Give the common name (CN), scientific name (SN), and biotype, where applicable)

☐ PEST: CN _____; SN _____; Biotype _____☐ PEST: CN _____; SN _____; Biotype _____☐ PEST: CN _____; SN _____; Biotype _____

12. KNOWN PHYSIOLOGICAL STRESS REACTION

1 = Susceptible; 2 = Resistant;
3 = Tolerant; 4 = Avoidance☐ Heat☐ Cold☐ Drought☐ Air Pollution

Nutrient toxicity or deficiency (specify nutrient) _____

Other _____

13. COMMENTS

8

EXHIBIT D

Additional Description of 'UI 906'

Table 1. Days to flowering and maturity, seed size, yield, growth habit, and lodging of the black 'UI 906'.

Location ¹	Nursery ²	Year	Entry	Days to ³		Harvest	100 seed	Yield	Growth	Lodging
				Bloom	Physiol. Maturity ⁴		wt.(g)	(Kg/Ha)		
Parma	MISC	1988	UI 906	47 b	83 b	95	15.9 a	2741 a	IIB	1.9 b
			Midnight	50 a	88 a	95	16.9 b	2782 a	IIA	2.0 b
			T39	51 a	88 a	96	16.2 a	2343 a	IIIA	3.6 a
Kimberly	MISC	1988	UI 906	55 -	88 -	96	15.5 b	2174 a	IIB	3.2 -
			Midnight	58 -	93 -	101	18.6 a	2324 a	IIA	2.3 -
			T39	58 -	92 -	100	17.6 a	1997 a	IIA	1.5 -
Kimberly	MISC	1987	UI 906	50 b	89 b	97	16.0 a	3060 ab	IIA	2.0 c
			Midnight	55 a	99 a	107	18.2 a	3469 a	IIA	2.5 b
			T39	54 a	99 a	107	17.4 a	2657 b	IIA	3.5 a
Kimberly	MISC	1986	UI 906	-	84 -	92	15.5 -	3386 -	IIA	-
			Midnight	-	91 -	99	16.8 -	3554 -	IIA	-
			T39	-	85 -	93	17.0 -	3377 -	IIB	-
Kimberly	MISC	1985	UI 906	-	87 -	95	14.0 -	2875 -	-	-
			Midnight	-	92 -	100	16.0 -	2875 -	-	-
Bay Co., MI		1988	UI 906	-	92-105 -	-	-	2084 b	-	-
			Midnight	-	105-115-	-	-	2537 a	-	-
			T39	-	100-110-	-	-	2153 ab	-	-
Gratiot Co., MI		1988	UI 906	-	92-105 -	-	-	2799 a	-	-
			Midnight	-	105-115-	-	-	3269 a	-	-
			T39	-	100-110-	-	-	3285 a	-	-
Freeville, NY		1987	UI 906	-	94 -	102	17.6 b	2958 c	-	-
			Midnight	-	116 -	124	20.9 a	3863 a	-	-
			T39	-	115 -	123	22.5 a	3599 ab	-	-
Churchville, NY		1987	UI 906	-	-	-	17.5 b	2321 b	-	-
			Midnight	-	-	-	21.3 a	3303 a	-	-
Penn Yan, NY		1987	UI 906	-	-	-	17.2 b	3448 b	-	-
			Midnight	-	-	-	22.1 a	4416 a	-	-
Freeville, NY		1986	UI 906	-	100	-	18.0 b	3032 b	-	-
			Midnight	-	118	-	21.8 a	3795 a	-	-
			T39	-	114	-	21.2 a	3575 a	-	-

Location ¹	Nursery ²	Year	Entry	Days to ³ Bloom	Days to ⁴ Physiol. Maturity	Harvest Maturity	100 seed wt.(g)	Yield (Kg/Ha)	Growth Habit	Lodging
Average (excluding (NY & MI)	UI 906			51	86	95	15.4	2847	IIA-IIB	2.4
	Midnight			54	93	100	17.3	3001	IIA	2.3
Average (excluding 1985, NY, & MI)	UI 906			51	86	95	15.7	2840	IIA-IIB	2.4
	Midnight			54	93	101	17.6	3032	IIA	2.3
	T39			54	91	99	17.1	2594	IIA-IIIA	2.9

¹ Data from Michigan provided by Greg Varner, Michigan Dry Edible Bean Production Research Advisory Board.

Data from New York State were provided by Don Halseth, Department of Vegetable Crops, Cornell University.

² With the exception of the 1985 and 1988 Kimberly Miscellaneous nurseries, plots consisted of four rows replicated three or four times. The 1985 and 1988 Kimberly Miscellaneous trials were two row plots replicated two and three times, respectively.

³ Numbers followed by different letters indicate statistical significance at P=0.05 using LSD or DNMR tests. Comparisons are valid only within nursery/year/locations.

⁴ Readings taken at physiological maturity maturity (80-90% buckskin pods). Harvest maturity averages eight days later at these locations.

Abbreviations: MISC, Miscellaneous Nursery.

Exhibit E

Statement of Ownership

The cultivar UI 906 was developed through the process of sexual hybridizaion and subsequent selection as part of an ongoing breeding program at the University of Idaho. Sole and exclusive rights to 'UI 906' are the rights of the University of Idaho. This cultivar will be handled by the Director of the Idaho Agricultural Experiment Station as a public variety. Seed of this variety may not be sold as an uncertified class as stated in Title V of the Federal Seed Act. No exclusive and binding contracts may be entered into with any commerical organization.

//